

Byrd, Ross Island
McMurdo ^{Lab} Sd.
What was previous
proposal

was in Antarctica (field
work from Oct. 61 -
Feb. 62

What results of
previous work.

I appreciate difficulties

but claims and hopes
of program do not seem
to take them into considera-
tion. They (the difficulties)
are not referred to (or mentioned)

Need a more careful selection of graduate students

Undergraduates should be out.

(If man can't get grad. students let someone else who can take over or better yet seek or "advertize" for qualified ones, before taking undergrads for serious research. For policing lab maybe O.K.

But for these tasks Eagle Scouts! / 2 or three in bio

lab., good publicity, useful simple work (check Chappell Book).

college.

would get what undergrads get at

as sci. aides
Lab. assistant.

Dish washers

House keepers

Floor sweepers

Eagle Scout is

capable conscientious
+ experienced

If projects are more than just making work or projects for students

Want not him is too conceited or proud to do humble work

~~should not be~~

These Ant. projects ~~should not~~ ^{should} be left to unsupervised students especially not undergrads.

Should not be unsupervised opportunities for giving students something to do while in Antarctica

These projects are to be more than.

more sincere, ~~serious~~ ^{growing} with greater potential

Mc Murdo needs

Twice calculator was used & not covered despite ^{label} sign posted on machine asking that it be covered. One left out on table & unplugged was discovered. Turned on, plug in wall outlet.

"Please replace cover" in caps
I, take no stock in contention that
can't get (or persuade) good man
to undertake worthy projects

What are things you want done?
(not just basic research)

Let's have summary of accomplish-
ments to date.

New Lab

Palmer

Utilities:

Electricity

Fuel

Water supply

F.W.

Salt,

Present system may result in not getting best men. First applicant with an attractive looking proposal gets the backing and second man, let us say better with much same proposal set nothing.

Cannot believe good men can not be persuaded.

What does present set-up indicate?
That we are taking second best.

Those who want to get rid of (pass on, move along) students is key will not come for more than a brief visit, can't be very personally interested in project.

The real man ~~who~~ would ^{great} make the project as his personal business. — make it his personal endeavor. How sincerely interested ~~to be~~ if he won't make project his own personal endeavor.

Universities for over head & prestige should be agreeable to letting faculty members go. They ^{Univ.} get over head & prestige & maybe some favorable publicity out of projects.

Every grad. who comes down here
should have several weeks Coast guard
Head discipline and training to instill
a little practicality into him; an intern-
ship for working in Antarctic.

Too much a lark and adventure
for some.

I have several times felt that Gov't should
have first call on all material collected
geological, paleontological, biological, at least.

Navy technician #3

Not too large a lab.

More a base for field operations.
and then also small.

Small drawler type of vessel (clipping)
(2-3 man crew.)

Cargo ship could be summer float
lab. (

Palmer Lab.

Wohlschag says
+ have vestibule

~~Lab. building should~~

not be smaller than 20x48.

Coleman type heater.

~~to~~ be expandable

① Utilities most important

Electric generators

Fuel use great deal of fuel oil.

(quantity)

Drum take
place over
tanks in main
1.

Water supply; at McMurdo snow melter
works best. Marble Pt has been sug-
gested as suitable because of nearby
glacier into which a steam pipe could
run

Find a place with ice supply
close

Lakes are more salt in front
near bottom.

Distilled water in bio lab, is
also used for tea & cold.

Salt water used is hauled up in
tanks

McMurdo to Margaret Bay
3,000 miles
and coast

Chas. McMurdo 3000

4500 Welling to
Margaret Bay

~~2000~~ - 2500 from King Geor
to Valpo.

Experiment No.

$$(K) = (\text{Normality thio.} \times 8.0000) / 99.2 = (\dots \times 8.0000) / 99.2 = \dots, K$$

$$(a) = \text{Init. mgs. } O_2 / l. = \text{mls thio.} \times K = \dots \times \dots = \dots, a$$

$$(V) = \text{Vol. } H_2O \text{ in chamber} = \text{mls. in chamber} - \text{g.wt. fish} = \dots - \dots = \dots, V$$

$$(W) = \text{Vol. } H_2O \text{ withdrawn} = \dots$$

Calculations

	Corrected mgs. O_2 in chamber	Minutes
Initial mgs. O_2 content = $1/1000 \times (a) \times (V) = 1/1000 \times \dots \times \dots = \dots$	Y_1	X_1
Mls. thio. $\times K = \text{mgs } O_2 / l. = \dots \times \dots = \dots (b)$	Y_2	X_2
O_2 content mgs = $1/1000 \times (b) \times (V) = 1/1000 \times \dots \times \dots = \dots$		
Mgs. O_2 initially = $1/1000 \times (b) \times (V - W) + 1/1000 \times (a) \times (W)$ $= 1/1000 \times \dots \times (\dots - \dots) + 1/1000 \times \dots \times \dots = \dots$	Y_3	X_3
Mls thio. $\times K = \text{mgs } O_2 / l. = \dots \times \dots = \dots (c)$		
Mgs O_2 in chamber = $1/1000 \times (c) \times (V) = 1/1000 \times \dots \times \dots = \dots$		
Init. Mgs - final mgs $O_2 = \text{mgs. } O_2 \text{ consumed} = \dots - \dots = \dots$		
Corr. Mgs O_2 in chamber = $Y_2 - \text{mgs } O_2 \text{ consumed} = \dots - \dots = \dots$

? Distance Valpo to Miami?

Few more McMurdo

tracks of
Shaw
collecting

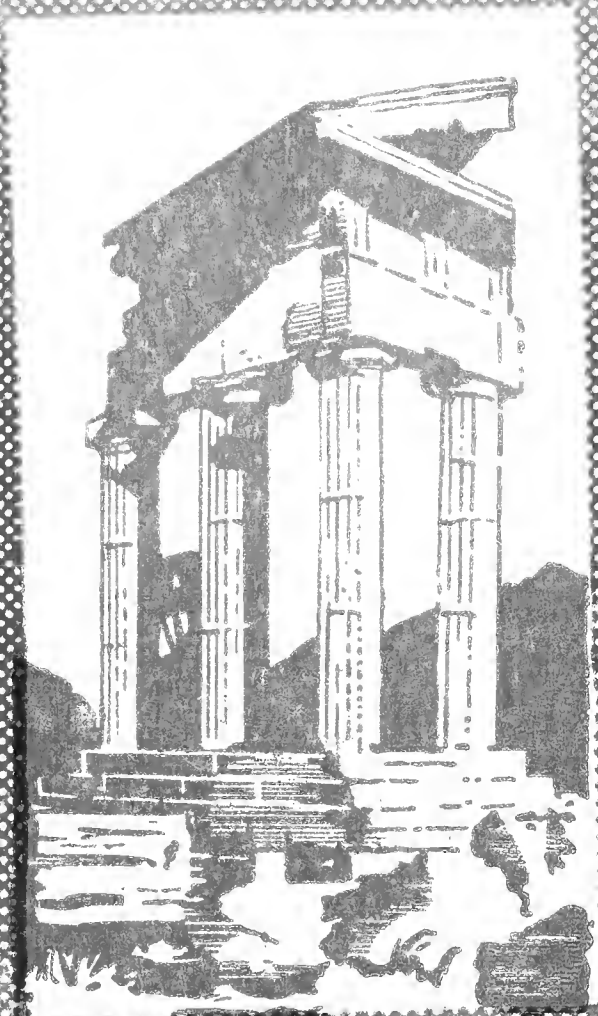
Starfish slide

Cape Crozier penguins
ger dei. American Art.

Another Fish trap slide

Get }

Sea tracks from east side
Seal picture or two



McMurdo
Panned Ma ~~holes~~
Notes

1725 Eye
Telesec


Classic
REGD.

EXERCISE BOOK

NAME Waldo L. Schmitt STANDARD

SCHOOL Staten Island

LICENCE No. 3.

 N.Z. S.S.-362	N.Z. STANDARD EXERCISE BOOK	
	ASK FOR No 1H	32 Leaves 9 1/2" x 7" Ruled 3 Lines to 1 inch

Address:
U.S. National Museum
Washington 25, D.C.
U.S.A.

Who are the Carinological workers in
grad schools to day =

McMurdo Laboratory and Station.

I had hoped to see Wohlschag at McMurdo
but he came out shortly after we landed in
Christchurch. I did make a date with
him so that we might ask a few ques-
tions relative to requirements of proposed
laboratory. 1

Bob Mason has done a superlative job, as
liaison officer bet. Lab and military.

Has established most effective relations
with air, army & navy personnel & officers

Have two columns: Minus side Plus side

~~As he would in hiring Lab. assistants
from among qualified available grad student
from all over U.S.~~

~~Students accepted criteria or just profs recommend
who is more anxious than otherwise to place rather
than to screen his students~~

~~If Wohlschag could not get graduate students
to go, they should have been taken from other
schools than Stanford, rather than to take
undergrad. Bears out my contention of
Prof's taking students from other schools work
in same disciplines // Let prof pick from applicants~~

(I am told)

McMurdo of today is a vast improvement even over last year. There is less trash, cable, wood scraps (with or without ^{erect} nails) lying around. ~~But~~ there still is room for great improvement. Rocks of all sizes everywhere, many in the roads. These should be raked together (mechanically) and redistributed over road (if not believed to impede sledges carrying ~~stain~~ supplies that the tractors (bulldozers) struggle up hill with.

Like wise a magnet on truck should be run about to pick up nuts and bolts, screws, nails, scrap iron and what not lying about in great confusion from house to house, in all pathways and roads; couple of times I tripped over such and nearly took a nose dive.

One or two men (aside from "trucks" here suggested) could work wonders if such litter disposal, and perhaps rock piling were part of their daily assignment.

Ideas re lab. to be developed and amplified. ^(Palmer)

Should not be too large, rather a base for smaller portable units that could be readily (easily) moved from place to place.

Water supply is important. Nearness to a glacier would have advantages, perhaps even over a natural freshwater lake. But not one that like Vanda may have bottom of more saline waters.

Harbor shelter, against winds, and relatively "easy" ice conditions are also important.

For morale of long time "resident" workers weather is an important consideration. Bright days, and greater percentage of clear days with minimum of wind, warmth, and generally agreeable climate can transcend many other desirable features of a location.

"Charcot, besides being a great gentleman, was a great philosopher: he said (realizing that it is an advantage that each man should have a cabin or some such place to shut himself in): 'It is often more difficult to bear the daily pin-pricks than the great griefs.'"

on p. 101, 2nd para. Admiral Lord Mountbatten's "Man against the Desolate Antarctic." New York, Wilfred Funk, Inc., 1951.

Charcot on indiv. rooms.

Individual rooms with wash basins & toilet in same building (under same ^{roof}) shower, and or tub bath.

"Labels" for each man to wear as many as officers in Navy and Air Force wear. With at least 3 lines Name, organization, or establishment represented or with which connected, and "research" being done as specifically as possible with space available, and discipline or phase here of being done by the individual.

Movable, at least partial partitions, to establish some sort of area for which research has at least implied responsibility for policing. There seems to me to be too much overflow and leaving (lying) around of tools of common use.

Of course heavy equipment shared by several men could be in a larger laboratory (common) room. ^{shakers, ovens} of various sorts ^{the smaller more or less individual} all by individual, table or lab. centres.

by other than specially designed or
Ideas for future surveys: ^{equipped ship such as El Tanin.}
Suggested by "Jack" Crowell water, current
drift bottles

Photo gear for photographing ^{sea} bottom
of area

Ice, optical properties, transmittal of
light for growth of diatoms on under-
surface even oblique rays of sun
seen highly effective and efficiency

Spongy ice under surface is
that what attracts penguins
out on floes? Anyway there
is when conditions are right
a tremendous (volume) production
of plant materials

Experimental craft to freeze in who
has information on that score. Fram
did, was it her construction, or just her good
luck. We should know how diff types of vessels
(designed for purpose) behave in freezing,
(pressure ice, and or other)

McMurdo is trashed up streets
iron junk, and wood, rocks
latter crushed & spread out in
streets — rubber tired vehicles
cleaner streets would look better and at same time
encourage in habits to keep them so.
Buildings, murals color, entire drab
surroundings, can be painted over
Employment of talent in idle hours.

Star Lab

Seems to me a very worthwhile project
to pursue (research - investigate). We should
know as much about freezing in as we
do about subs or other phases of military
and naval activities.

unless we were prepared and knew what to do in an emergency. ^{in an emergency}
Here on board did not want to take us seats. ^{our pilot}

Program too diffuse

Does not like sep. rooms thinks present lab is ample for people using it & wants no partition. When talk about free open space & bank to gether work done is meteorological etc. data gathering, observation, reading instruments!

For McMurdo

Jan 16/63 Wednesday. ~~We are~~ Expected to use helicopters as necessary in this survey. The chief of the helicopter pilots briefed us on survival, safety measures, and "gadgets" [Mae Wests, slings for being hoisted aboard. Slaves, life raft belted on, and on which we "sit" when in the machine. It's really tied ~~to~~ by belt to small of backs, thus forms a chair or seat cushion. Also we were told what to do in land or sea crashes, on one side or other, also exits, window and emergency door release.

All this reminds me of lack of this at McMurdo seem to have gotten careless as H. Bud Skinner insisted on my having one and lent me his. Every body should have one - there was no instruction given to any one to my knowledge. Tom Burke said that

we were told had heard that we were to be there. I thought as I landed on station in our session

Archie Nash says present ~~crowd~~ ^{at McMydo} is taking
credit for last years clean up that they
then did away with no end of cans and
trash in streets. In earlier day McM was
supply point for stations of I. S. V. and
no sci. work such as is being carried
on now was in progress.

Arrived at McMurdo on.

Assigned quarters with Ken Maltin in two bunk quarters (former room divided into two), Ken & I on one side, Blank & Chap on other. Lights on one switch & only on ceiling, no individual bunk lights and ceiling light in one case away from bunk and in other over foot of bunk one sizeable steel locker each, but no drawer space or writing table.

— was impressed by industry of the mature men working in lab.

{ Mason, stable man (professor type, thought he was

{ Ratzgotski & Linkens doing job from
selves. I would like to visit Univ Labs of men
see usages or working at McMurdo to see how they are kept and
Papendick first supplies are dispensed.
{ An awful lot of straightening up needed
to be done when particular tool was
wanted had to "comb" lab to find table
on which it was left. Each night some one should
restore to right all place.

Culture indoors, if successful gives one plants or animal for future experiments, —

But are observable responses those under natural conditions. Really set up conditions that would never be encountered in Nature.

Lab. is well equipped. But care of apparatus?

Supplies + Tools should be locked up! and store keeper in charge, stuff should be entered on cards as it goes out (definitely and specifically, especially in a place presenting supply problems as encountered in so isolated and so hard to support + supply as McMurdo.

Man on duty at all times — no errand running, straighten up lab each nite restore things. Tools perhaps in triplicate and duplicate so that no scientist can complain — (would like to visit Wisconsin to see how labs are kept and ordered. Ditto Berkeley + other Univ. sending men down here.





The enthusiasm with which I was greeted aboard something for he men to do there. I felt a great responsibility placed on me to do something about biological collecting. Lockers were searched lines were found dug out, or removed from dark corners. Fishing became the chief order of the day.

But a biologist cannot arrange apparatus of gear out of clear sky need a bit of advance notice to get it in shape and all hand for reference.

Two weeks while his mail collected? or 3?
And to in precise dredge under which as
short notice, or for flying in or out of ship.

H.O. No. 58, Sailing Directions Antarctica, 1943.
U. S. Navy Hydrographic Office.
(Chin Strap Penguin → Piedmont Id.

Books
"Antarctic Scout" — Richard Lee Chappell.
"Antarctica", Frank Debenham, London Herbert Jenkins
"Home of the Blizzard", Sir Douglas Mawson Phila. J. B. 1914 Lippincott, Co.

Need in Lab. Shackleton Repts. 2nd expd. (re Lakes)

"The White Desert, John Graeber, 1954
Chatto and Windus London.

"~~A~~ is an acct of Norwegian British,
Swedish Antarctic Exped. of 1949, 50 (51?)

Going to Telco, leaking launch; "Can you swim?"

U.S.S. Staten Island

269 feet long
63 foot beam
29 foot draft } 6000 Tons
displacement
when fully loaded

6 2000 hp. diesel electric
5000 HP on each two nickel aluminum
propellers

16 knots

10 feet of ice speed one knot

5 feet of ice " 4 or more knots

2 helicopters.

Carries enough fuel to go around world
twice

260 men 13 C.P.O.'s 19 officers

Commander John J. Metschel U.S.N.

Lt. Richard O. Sharron

Dr. R. E. Cannon

Lt. John F. Campbell

Jan. 5	313	Jan. 11	245	Erebus 12,449
6	317.5	12	259	
7	315.5	13	227.5	14,000 feet of ice
8	302	14	292.	
9	342	15	271.5	10 hr. flight from N. 2.
10	252	16	312.7	
		17	206	

Deception Ed (Feb. 12/13/63)

Other day in Jack's
room when I asked to
put Wright's name on
the "agenda" Jack said
it wasn't necessary
But I asked because I
wished to get his name
on record. / This a.m.

too busy for a drag.

Heticos's slight was
one of the things that
made for business. Purely
a photo junkie for Berg
who did not deal with
Jack but went direct
to Commodore.

I do not know what
deparure date is set

till midnight and then
if I asked for half day
for Schmitt my name
would be an anathema
to whole ships company
I had also said I wanted
to scout shores from
entrance to ~~Argentine~~ ^{Chilean}
Base, but did not put
it in writing.

True Deception Id is
not one of our primary
objectives, but from fish
trap ^{results} it should be a wonder-
fully productive area, rich
biologically.

However I would re-

Recommend that any work
by Americans here be
done in cooperation with
one of existing stations
with own boat, & perhaps
boat may and which
installed to haul out
boats, excellent beach
for such operations
also extra tanks for
storage one of which
could be converted in-
to quarters with own
aux. power plant.

cut windows & doors
in hull floor could be
two story. Could drill
for heat, - There is a 650
hot water well

Last evening when Capt. Mac mentioned that he would like to go to the Biscoe Islands, I said that we ought first to ascertain if there was time to spare for them. That was when I came up with the suggestion that a tentative or trial schedule should be worked out "backwards" from Mar. 6. Capt. Mac also wanted to have a look at the east side of Palmer Land — I would too — There is an area or ^{are} areas there "talked" about in the Lenton report that should perhaps be examined.

As a result a very rough estimate was jotted down so that one might have some idea as to whether, time-wise at least, that going to the Biscoes could be included or not.

It was my feeling that if a look was not taken to see how the time between now and March 6 might best be used that the trip might end up with not enough time to do the places about which USARP wanted information, or that the expedition might, on the other hand end up with time on its hands.

You will recall that you once said it would be helpful if at least some of the places examined on the way up the Peninsula could be revisited. This is another good reason why it might be well to arrive at some sort of an idea as to how much time could be devoted to looking at places, and what might possibly be left for revisiting perhaps, some of them.

(2)

Some allowance had to be made for bad weather, and when Capt. Mac totaled up the days listed in that tentative schedule, there were 16 days to spare for it. But unforeseen ship or ship-board delays could easily consume half that number.

Anyway Capt. Mac that the Biscoes might still be possible, but that decision we both agreed would have to be yours.

If the revisiting could also be worked in it would be fine too, the distances are not overly great, and the Captain knows or will know, before we are finished where he can safely anchor.

The guessing on paper of 4 days for the South Shetlands which Tom Berg thought allowed too little time for those islands was not a hard, fast, or final decision on Capt. Mac's or my part for the time needed for checking on Ralph Lenton's observations in that area.

Should not the places to be visited, which might be visited in addition, and perhaps revisited be weighed against the days available?

The tentative schedule that Capt. Mac and I ventured, and which he committed to paper was just the result of our guess work, and for your consideration. When he asked me what I thought about going to the Biscoes, I said, and he agreed that, that was a matter for you to decide.

Jan. 28, 1963

Observations:

McMurdo

~~as seen~~

summer of '62-'63

(11)

Things as they seemed

From the air "McMurdo" appears as a well-organized, well-laid out community of quonsets, rectangular box-like buildings, shops, and warehouses. In well gatronized parking areas ⁱⁿ auto dumps ^{-junk yards-} or actively at work, according to the time of the day and their condition, are to be seen ^{just} about every conceivable type of automotive ~~vehicle~~ ^{and "caterpillar" equipment} ~~garage~~ ^{loaders,} rubber-tired trucks, ^{loaders,} weasels, sno-cats, bull-dozers, tractors, ^{loaders,} fork-lifts, and travelling hoists; also several helicopters.

Approaching from the "ice", and so ^{from} ~~can~~ ^{on the} the "ground", the place ^{is} ~~was~~ a bit bleak side with its "dirt" roads, and in the main, greying buildings, its bare, black-brown hills spotted with dwindling patches of last winter's snow. ^{To all appearances,} ~~For all the world,~~ a West Virginia mining town, but withal an extremely busy one.

Climbing the steep fire-shore, up and over dusty, rutted roadways of volcanic ash ^{powerful} "caterpillars" grind stubbornly along dragging behind them trains of two or more great ~~steel~~ sledges bearing seemingly impossible loads of about everything under the sun — red and black drums of gas and oil, yellow cylinders of acetylene, cartons, crates, and ^{wooden} cases of equipment, food, and supplies ~~of all sorts~~ innumerable.

Brighter spots of color in ~~amongst~~ the busy scene are the brilliant green quarters of the USARP ^{over-}wintering personnel, and the substantial ~~red~~ "office" — Bob Mason's headquarters building — and ^{to day} ^{most} ~~new~~ prominent on the landscape, the ^{new} ^{brighter} ~~great~~ two-storey red "Butler Building", the USARP warehouse ~~and~~ rapidly being organized ^{local} supply depot. ^{The Butler Building} Between ~~it~~ and "headquarters" stands the also ^{pointed} ~~largely~~ red Bio Lab ~~large~~ ^{in large} measure the raison d'être of all ^{that is to be} ~~seen~~ here. ~~and round about~~

or man made spur

3

to the right

Upon a "shelf" of the highest hill stands a closely knit group of somewhat forbidding looking buildings - the reactor station of great potentiality, the eventual source of light, heat, and power for the continuing well-being of all McMurdo.

A closer inspection reveals the purposiveness of many of the nearby rectangular structures, the dispensary and hospital, the weather station surmounted by a globular dome, the post office, movie-theater and laundry under one roof, the several heads, ~~and~~ the great mess-hall ~~and kitchen~~ and adjoining ~~kitchen~~ galley, the largest building on the "campus" to which everyone resorts with great gusto for four square meals a day ~~if you~~ counting the midnight ~~break~~ and snacks and meals for late workers, intended primarily ~~at night~~.

and ~~the~~ night shifts, ^{but} ~~and~~ not counting the fore and afternoon coffee breaks, and the cup-that-cheers in the early morning before breakfast, and in the evening after dinner, ^{or} ~~and~~ ^{milk and} the assorted fruit juices ~~and~~ ^{or} milk - almost always on tap. ~~hand and available~~

(4a) insert (4a)

And not to be overlooked is the multitude of quonsets housing about everything else under the sun - supplies, shops, the geological lab the "wardroom", dormitories for various details, and ^{the well-filled} bunks house ~~the~~ ~~Vermin~~ "Vermin Villa".

The ~~Wally~~ Support-Force ^{sector} ~~side~~ of McMurdo is a busy, bustling place, ~~as~~ almost ~~an~~ ~~important~~ industrial city within the establishment as a whole and worthy of a "book" in its own right.

(4a)

The meals are very good. The menus, variety and abundance of food leave really nothing to be desired. The laundry service is good and prompt. The movie shows are well patronized as is the PX when open. The heads are well kept, but overly warm perhaps to offset if that were possible the icy up-draft through the seat openings above the honey buckets. Water hot & cold is in abundant supply.

As busy too, but on a considerably smaller scale, is the USARP/headquarters office where all the wants and troubles of the many researchers and their assistants concerned with the ~~physical~~ earth and life sciences, come ~~home to~~ for attention and solution. Here ~~are~~ numerous records, charts, briefings,

scheduling of flights, ship and land transport for ~~their~~ civilian personnel are projected, reconciled, ~~and~~ kept up-to-date, and all contacts with

Navy ~~support~~ ~~personnel~~ ~~and~~ ~~services~~ are handled by an office staff of ~~the~~ "Bob" Mason, and "Bud" Skinner. ~~They do not~~ ~~all~~ ~~of~~

~~that~~ ~~has~~ ~~been~~ ~~keeping~~ ~~in~~ ~~touch~~ ~~with~~ ~~Washington~~, ~~doing~~ ~~their~~ ~~own~~ ~~typing~~, aided by a copying machine, and a single clerical assistant.

check and
ada

a truck driver and shorekeeper

at Butler Bldg.

Foot note:

Bob Mason has turned in a wonder-
most ~~commendable~~ ^{commendable} ~~job~~, ~~not~~ ^{only} in attending to
the multiplicity of wants of the
scientific personnel in the laboratory
and in the field ~~but~~ in his dealings
with the Navy.

Under the ~~same~~ roof with the office but separated from it by a usually tightly bolted door, ~~and~~ with its separate outside entrance, is a ~~room~~ lounge comfortably furnished for relaxation, conversation and reading, with well filled shelves of miscellaneous literature, ~~and~~ recent files of pertinent ^{Technical} periodicals, and magazines as current as the mail service permits.

Within ^{is} the new Butler Building housed an extensive range of supplies — field, and in part laboratory equipment, boots, shoes, clothing, underwear, sleeping bags, emergency rations, photo-chemicals, paints, tools, boats, a station wagon, portable generators, fish traps, carpenter shop, stationary, and what not.

from
over

Actively being installed at the time of my visit were tiers of steel shelves on which were being rapidly organ-

no para,

Much of his miscellany had been stacked and piled here and there in this vast warehouse, on one floor or another, apparently in some haste to get it quickly under cover.

12ed Byromars and ~~the~~ 20m

(at present)

The Bio-Lab is a — foot long structure. The ~~east~~^{western} entrance ushers me into a well-lighted and comfortably warm building. In ~~the~~^{its} first section, when not engaged in active field studies, several teams of researchers ~~are~~^{may be} in "residence" as was the case when I arrived. First on the right, Colin Frearson and Owen Wilkes both of Christchurch, New Zealand, working over Berlesing as I would say, and sorting, samples, of soil, gatherings of mosses, ~~with~~ lichens, and bird nest debris for their respective entomological faunas.

To the left an available table which was placed at my disposal. Here too was a Marchant calculator used from time to time by various ~~the~~ investigators.

Beyond on the right a niche in which Drs. Hagostski, and ~~Wittens~~^{Linkins} did their "home work", ~~and~~ reports and such when not gathering data.

for their ^{project} ~~at~~ Lakes Bonney and Vanda.
~~A serious minded, dedicated, hard~~
~~working team.~~

To the left ^{was shelving and} were ^{storage} shelves ~~for~~ chemicals,
~~containers, miscellaneous supplies~~ and small pieces of equip-
ment, a standard laboratory table,
and a little desk or stand,
sandwiched in between the ^{table} ~~space~~
assigned to
working on....

Farther on,

~~Next~~ on the right a laboratory
sink, and farther on a very fine
library of technical literature, current
scientific periodicals, a reprints
file, and bound sets of the publica-
tions, usually quarto, and monographic
in scope of the various Antarctic
Expeditions, ~~mostly~~ British, Australian,
French, ~~and~~ German, and Belgian,
along with a number of ~~the narrative~~
~~accounts of~~ ^{narrative} more or less
popular ~~accounts~~ ^{Antarctic} of these and
other expeditions, including ~~the~~
~~the~~ ^{The Deep Freezes!}

no
water

~~Between~~ Between the first and second ~~major~~ ^{sections} of the Bio-Lab. is a ~~large~~ ^{small} shop, and tool repository, with odds and ends of materials of divers kinds ~~for repairs~~ ^{making} or ~~as~~ constructing ~~needed~~ ^{accessories} ~~accessories~~.

First ~~in~~ the second section ~~is~~ ^{"rocking"} is a culture chamber over seen by Messrs Mason and Hobbie. Their interests occupy about half the length of ~~the~~ ^{portion} of the laboratory. ~~On~~ the opposite ~~sides~~ are first a refrigerator, lab ^{omitory} sink, ^{water} still, and several tanks, round and square ~~for~~ ^{low} ~~temp~~ ^(normal) temperature ~~holding at~~ ~~fish~~ ~~for~~ ~~metabolism~~ ^{constantly} stirred by electrically driven rotors ~~and~~ ~~not~~ ~~for~~ ~~metabolism~~. Here the experimental ~~runs~~ ^{metabolism} runs on fish are performed, but not while ~~Beyond~~ the ~~Hobbie-Mason~~ section, T. S. Bunt was busy with productivity studies, concerned

in great measure to not primarily ^⑨
with the abundance, growth rate, and
kinds of phyto-plankton living on
the under side of the shelf ^{and sea} ice. I
was much impressed by what he
is trying to do, and would like to
see his studies continued and
indeed expanded. ~~as I feel they~~
~~should~~

Opposite Bunt's corner are
~~first~~ several pieces of apparatus,
instruments, for determining the
Carbon 14 (content?) of his samples
as well as those collected by Mason
and Hobbie. ~~which~~ ^{in addition to those}
~~the readings made here of their~~
~~field collected samples, are also~~
running tests on the ~~cultured~~ cul-
tures ^{from} held in the culture chamber
~~referred to above~~ are made here.

Balances and chemical hoods
are in the left ^{hand, east end} corner of
his section of the laboratory building.

Next ~~comes~~^{is} the dark room and photo lab at the end of this section ~~or~~
~~first~~ in the Third section of the laboratory ~~building.~~ this is followed by ~~very~~ roomy, constant temperature cold ~~chambers or rooms,~~^{chambers} used by ~~Bunt and others.~~ Opposed to these is a space he use of which I do not recall at the moment, ~~but~~ It adjoins an office ~~space~~^{area} with a typewriter, much used by many people when not being used by the Laboratory director, as it quite constantly is when he is in residence. ~~(Stut)~~ many supplies are stored here are available here.

The door at the ~~end~~^{far} end of the lab opens onto a ~~runway~~ short passage ~~way to the south, making~~ leading to the ~~outside~~^{USARP} an exit opposite ~~by the shortest path to the head-quarters~~^{the entrance} ~~in~~ Beyond ~~the far side of~~ this passage is a quonset-hut-type ~~of~~ extension

of which

13

add
a
b
c

~~These~~ on the floor and shelves are
~~placed~~ ^{stored} ~~mostly~~ ^{collecting} heavier gear, nets
of various sorts, a considerable
quantity of hydrographic equipment
~~both~~ ^{reserve} ~~the~~ ^{the} ~~supplies~~ ^{stocks} of larger
and otherwise ~~too many~~ and ~~too~~
bulky and too many for storage
the shelves in the first section of
the biolab where miscellaneous small
stores and supplies are kept. They
occupying about the third of the
the far end of this quonset ^{length}

beeds
on up
may
mach. to

Side
reg.
as in
this
halls

^{unoccupied}
The far end of this hut ^{was being} ~~serves~~
as a ^{carpenter} ~~work~~ shop for construction ^{of all kinds}
~~trunk~~ boxes, and shelving ^{which}
is being constructed for ^{the storage of} gear tem-
porarily stored on the floor.

and packing
cases for departing
boxes and crates.

green

(13a)

The dormitory ~~building~~ ^{is} ~~is as any~~
~~and~~ in so far as the rooms for those
who over winter are concerned ^{is} all
that one could ~~ask~~ ^{ask}. ~~In this building,~~
and summer visitors are ^{reduce} accorded less space ^{because} there are
bit ~~more~~ crowded with a minimum
so many more of them.
~~at lock of and so much space but~~
~~comfortable though not conveniently~~
~~lighted in some rooms as could~~
~~be~~. At one end a book lounge
with somewhat limited seating, but

~~considering it size,~~

(136)

with a very wonderful ~~commendable~~
lot of reading matter.

At the head of "main street"
sounds

~~Perhaps there should be mentioned~~

The Chapel ~~is~~ a restful quiet place

and its fine library has ~~with also with a~~

wonderful ~~and~~ ~~for~~ large ~~array~~ ^{selection} of

books, in ^{of} all ~~categories~~ ^{sorts}, fiction as is

~~to be expected, and needed in~~

~~far a way a place out numbering~~

~~was~~ the non-fiction volumes. Both here

and in the dormitory lounge there
~~are~~ is a commendable ^{number} ~~selection~~ of
books dealing with Antarctica and
~~a number of also covering the Arctic.~~

the Polar regions, North and
South

Musings

Things as they are ¹⁴

In the main the physical plant
and services rendered at McMark
is top flight.

~~Yet Left much to be desired.~~

The various buildings of the ~~Support Force~~ ^{United States} Navy's end of ~~McMurdo~~ I can say little ~~for~~ ^{about} ~~of~~ ^{the} ~~personal visits to their establishment.~~ have little to say. Their various buildings seem to serve ^{well} their several purposes ~~well~~ from dispensary ~~the~~ ~~shops~~ to ~~the~~ ^{the} shops. The meals and laundry services, ^{the Navy provides} very good. I would say the menu's, ~~and~~ variety and abundance of food leave really nothing to be desired. The movie shops ^{are well patronized} and ~~the PX are well attended during~~ ^{as is the PX during their open} ~~business hours~~. The heads are well kept ^{overly warm} ~~perhaps too warm~~ ^{as if heat were possible} to offset the ~~no doubt I might call the~~ "tremendous" ^{icy} ~~cold~~ ^{up} drafts ^{through the small openings above} over the honey-buckets. Water ^{hot and cold} ~~supplies~~ ^{has} everywhere ⁱⁿ ~~seem~~ ample supply ^{McMurdo's plant}. So much for the physical ~~setup~~. It is adequate and in some directions ~~lavish~~. ~~Any where in the world~~ ~~there can always be~~ one can find room for improvement and so in some directions here too.

In the Laboratory some disappointment was voiced over the difficulty or delay ^{occasionally} encountered in trying to get small construction jobs, or repairs done in the Navy shops. This ~~may~~ points up the need of having some mechanically competent help assigned to the Laboratory.

In the course of my brief visit, five fish traps were rushed to completion for me in those same shops when the sailing date of the "Staten Island" was unexpectedly advanced. Bob Mason's intervention and ^{my being} ~~his~~ introduced ^{by him} ~~me~~ to Lt. Tate in charge of the shops, helped mightily. The Lieutenant admitted that he was short-handed and could not always attend ~~to~~ to Laboratory wants as speedily as ~~was~~ ~~desired~~ ~~there~~ desired because of prior Navy demands. He

welcomed the idea that he should have more help. ^{It is necessary if} ~~so that~~ ~~it~~ he is to give the laboratory ~~at~~ the ~~support~~ it would like to have. sudden service

Can ~~it~~ ~~could~~ be arranged ~~would it~~ ~~not be better~~ to have three qualified Navy mechanics — carpenter's mate, machinist's mate, ~~electrician~~ electrician — electronics man assigned to USA RP activities, to be available though to the Navy's engineering department when their services were not needed by the Laboratory

On the whole McMurdo could stand some sprucing up. One of the worst features is the amount of junk metal, and scrap wood, with ^{invariably} protruding nails littering the "streets" and walkways — strap-iron, wire of all descriptions and lengths, pieces of galvanized cable, tie or anchor rods, iron stakes, broken equipment, junk of all kinds, and ^{this trash} rocks large and small. Most of ~~it~~ could be hand gathered without much loss of time. A power-rake, mobile magnet, or even a tractor-scoop and sieve as used to sift the sands on some California bathing beaches would help. (The rocks and stones could be crushed and returned to the highways as road metal.

Why not promote decorating the sides of the drab greying buildings with murals? There must be plenty of talent about, ~~that~~

(18)

judging from the cartoons that
turn up from time to time. The
large cartoon ~~on~~ hanging in the
passage way to the mess hall
would be an even greater hit if
transferred, life size and in color,
to an exterior wall of that hall, or
to the exterior of the movie "palace".
have been made

Some attempts at brightening
up some of the huts. There is
one with a Totem pole out front.
Others have added plaques and
succinct name plates, but what
could be more lively and en-
gaging than a good cartoon-
mural.

Whether the available, or latent
talent among the inhabitants would
rise to the opportunity of so employ-
ing its ~~spare~~ ^{leisure} time or not, a
prize or prizes for the best jobs
could be a great stimulus. Spaces
is an open question, but

on which to go to work could be determined by lot, or assigned by the judges[#] on the basis of designs or preliminary sketches submitted in competition. Unwanted murals can always be painted over, also if suitable space gives out, but there are enough building sides to last for a long time to come.

~~There is a~~

From the little I have seen of Ant
arctica, and McMurdo in particular
I believe each man should have a
room of his own. ~~It~~ Could be a
small cubical ~~with~~ 8 feet square
a bunk with ⁴ deep drawers and
locker at one end under a book
rack above a locker, and ~~combing~~
~~des~~ writing desk and bureau.
a window ^{or} ~~and~~ porthole, and a
door.

~~I do not find much~~
~~suff~~ (The ~~one man~~ ^{each man} has his room idea)

The door "latches" on the USARP buildings maybe of clever and economical design, but are not as practical, or as efficient in making a snug closure as those on some other structures, ^{McMurdo} ^{over #1} These ^{present "latches"} could at least be tightened up a bit, and be provided with stops preventing the handle from turning completely over every time it is let go ^{over #2} ^{ineffective} Some doors have stops ~~so~~ that may jam the latch handle.

^{over #3} entry ways or

All restrooms should be provided with some sort of light, or window. ~~As of now~~ from bright sunlight to dark entry. ^{Passing} ~~Often~~ Various articles, packages, ~~making~~ ^{shoes or boxes} are stored in them. Also ^{to see the things} ^{in them} the floors of these entries should be ~~of~~ ~~metal~~ ^{metal} gratings ~~so~~ ~~that~~ so that the dirt

~~For an overall~~ ~~male~~ ~~are~~
~~So spruce up the place it would~~
~~appear thinks that~~ ~~fast.~~

~~Over~~
~~#1~~ ~~sprucing up of the place~~ ~~(building)~~ ~~for instance~~
The weather facility has a very fine
door closure. ~~How expensive~~ ~~too costly~~
~~Does it cost too much?~~

~~Over~~
~~#2~~ a stop to halt the upward swing
of the handle and one to stop
the downward swing as well. Yes,
some doors do have stops but
~~they are~~ some of them are worse
than none. Being of thin ply
wood the ~~the~~ "latch" handle jams
on them instead, adding to
the problems of a man ~~trying~~
trying to carry into the build-
ing a heavy box or bundle.

Over #3

brought in on shoes and boots (22)
~~a cap~~ be scraped off. and ~~to drop~~
through into an enclosed area
or ~~per~~ removable pans in a tight
compartment or drawer; ~~also~~
thus, ~~there would be no draft~~
~~through the grating to~~
~~adverse cutting down the shelter~~
~~provided by the vestibule~~ just
before the inside door leading
into the lab or dormitory a
coon mat on which to wipe
one's feet would serve a good
purpose, if shaken out occasionally.

~~there~~ { no draft will be occa-
sioned. The idea is to save heat,
and ~~at~~ the same time keep the
lab^{oratory} or dormitory clean.

Stooly Clerk - ~~Resistings~~.

No one minds a congenial room mate, or two or more but each scientist should have a ~~separate~~ ^{of his own} room ~~in dormitory~~ ⁱⁿ ~~or~~ ⁱⁿ which to lay out his belongings, ~~to~~ write in private or in which to retreat for meditation. But four or more people in cramped quarters, each with a clothes locker and ~~little~~ ^{nothing} else, ~~no~~ without space even for a writing desk or table however small, gives one a place to sleep but ~~very little~~ ^{except} in truth very little more. ^{a single chair ceiling} The one man to a room idea has been worked out very nicely for those who winter over and ~~would be~~ ^{might be} could perhaps be worked out for just about ideal ~~if it were pos-~~ ^{possible} ~~to grant for each~~ ^{investigator} ~~investigator~~ ^{as well.} ~~if he could be granted the same~~ Charcot ~~said~~

In the dormitories

by means of partitions,⁽²³⁾
partial and/or movable

In the laboratory some ~~segregation~~ ~~division of space~~ ~~gation~~ seems desirable
with ~~regard~~ ^{regard} to ~~these~~ ^{the} types of
~~research~~ investigations pursued.

Though the ~~res~~ workers in the
laboratory when I was there
expressed them-selves as not
in favor of the idea, a separa-
tion of this kind already exists
in the manner in which the present
building has been put together
in traversing the ~~laboratory~~
from end to end one passes
through at least 4 doors
making for some separation
of the lines of work being
carried on.

I find support for
~~partial~~ ~~segregation~~
this segregation of ~~act~~ labora-
tory activities in a letter

received from J. Bunt replying
to inquiries of mine :

"

McMurdo

The "published" Bio-Lab inventory is an impressive document. Here and there, however, is listed a piece of apparatus that cannot be used because some part of it is missing, broken, or inoperative.

Should not such entries be ~~left~~ omitted from

~~the~~ the inventory proper, and be relegated to an appended list, until repairs have been effected.

~~Also~~ ^{No} dirty, and as such ^{not readily} unusable items, ^{or} corroded gear needing oil, or other attention

Likewise should be ^{carried on} ~~excluded from~~ the inventory proper, ~~otherwise~~ ^{the inventory}

~~records a lot of unreliable information, unless it~~ ^{is designed to} list every thing

^{on} ~~at~~ hand, good, bad, or indifferent.

~~otherwise~~ ^{this is the case} defeats the purpose for the inventory which ~~I believe~~ it ^{is designed} ~~was drawn~~

How long is ~~inoperative~~ apparatus
 carried on the "books", before being
 repaired or discarded? ~~I~~ I hate
 to say that I did not enquire,
 but is any account kept of ex-
 pendable items withdrawn from
 stock? ~~There must be~~ ^{probably is}, for
 I was asked to list what I took
^{in the way of preservatives and canning} ~~with me~~ on the Staten Island ~~day~~
~~with~~ ~~It~~ would not be unwise
 to have the stocks of supplies
 and chemicals under lock and
 key, and issued ^{only} under requisition
 as is the practice in some uni-
 versity laboratories. This ~~practice~~
 makes possible better estimates for
 the replenishing of ^{those} supplies.

Accounts I believe are kept
 of expendable items used by workers
 in the laboratory, but a stock or
 supply ~~clerk~~ clerk should have them
 under lock and key so that ~~records~~
~~kept may be~~ adequate records ^{may} be kept.

I gather ~~that~~ there ~~is~~ just ^{seems to be}
~~too much of the spirit of~~ ^{leaving} ~~laissez~~
~~faire~~ ^{with}

~~The~~ ^A ~~laissez~~ ^{faire} ~~atmosphere~~ ^{meted out to}
~~the~~ ^{care} ~~of~~ ^{laboratory instruments}
~~in a lab.~~ ^{is a friendly} ~~one~~ ^{but not always} ~~syndicates to~~
~~and apparatus~~ ^{on the part of}
~~the proper care of~~ ^{is}
~~some of those who are fortunate~~
~~enough to be accepted for work~~

~~at McMurdo.~~ Twice a Fridgen
calculator ^{on the floor of which} ~~which~~ ^{high} ~~was~~ ^{high}
~~one side in the portion of the Bio-~~
~~lab where I found a vacant~~

~~was~~ ^{position} ~~table~~ ^{or left up covered} ~~moved over to the~~ ^{active, current in.}
~~table of which I used as a desk.~~

~~It was left there until I restored~~
~~it to its original location~~
~~and covered it both times with~~
~~the its cover on which was~~
~~pasted a clear and unmistakable~~
~~sign, please replace cover. Once~~
~~it was left electrically~~
~~alive though not being used.~~

More emphasis should ^{be} placed ^{the taking-care to avoid} ^{possible} ²⁸ on the danger of fire. ~~Not enough attention is paid~~
~~to fire hazards.~~ I do not know
~~where smoking enters into the labora-~~ ^{is a source of or conflicts with}
~~tory and dormitory regulations~~ ^{those days}
~~if at all, but I did observe the~~ ^{nothing can be done about it in lab or dorm}
~~use of a newspaper used as a~~ ^{I mention the hazard of fire because once I}
~~shield of shade of~~ ^{use of a newspaper used as a}
~~shield so close to a powerful~~
~~lamp that it gets charred, and was not removed~~ ^{so close as it to the lamp was it}
~~when I noticed it and~~ ^{got charred before I}
~~removed it.~~ The potential
danger of its placement and
removed it.

There are a number of tools
of various sorts available in the
Bio Lab but they wander all over
the place. No body seems to put
anything back where they got it
from when through with it. I
can conceive a constant use on the

part of an investigator of a particular tool, but out of regard to others it should be returned to its place at the end of each days ^{use} ~~part~~.
If in constant demand the researcher should furnish his own.

Fire hazard:

For a shield to strong lamps, one assistant used a newspaper, has charred when I called attention to it.
→ smoking is O.K. I guess like but ~~wiser~~ always a bazar

Orderliness:

(building) as a whole
The lab. like McMurdo has grown like Topsy, there is a rough general order in buildings, as with lab. but add. things here and there seem often at cross purposes.

With in Lab. overlapping of activities

soil

murals on buildings ^{etc} men land

A clean up campaign or
detail of men assigned to the
job would ^{certainly make} ~~make~~ for an infinitely
better looking place, ~~there~~ might
the ^{some} ~~are~~ of ^{its} bleakness, ^{dispel the air} ~~and~~ a ^{dispel the air} apparent
neglect, and create, it is possible
a greater pride in the looks of
the place in the inhabitants thereof.
who in the summer months may
~~exceed~~ total all of 1300. ~~thousand~~

(15a)

~~Bob's friendly relations~~

Bob's cordial ~~refugees~~ relations.

~~This~~ made possible my having
the ^{fish} traps needed for the Palmer
land survey ~~turned out~~ rushed through on
very short notice, ~~following~~
~~my introduction by Bob to~~
~~Lt. Tate engineer in charge~~
~~of the Navy's McMurdo shops.~~

Because of Bob ~~with~~ ^{the} ordiat
relations with Navyth staff and
~~command~~

Do *Notarhynchids* survive freezing
as does ~~the~~ *caquetin* up north.

Could they not be at least refrigerated
& brought to states?

The researchers on the job.

While I was there:

They are gleamed with the management, deplore the delays and wait for Navy services. but sense the opportunity afforded — I spoke on of qualified (prised) and of equally high ranked investigators

But when it comes to getting undergraduates students in Mr. Murdo quite another problem seems to present itself.

If a professor is willing to undertake a project, ~~and~~ principal investigator he should be present to ride herd (this I express in I picked up on the job) on his students!

For present day American undergraduates, things ^{being} as they are in America, as a ^{general} rule I would say under grads, unless exceptional individuals, have no place in architecture.

~~available, ad is working under!~~

Dec. 15 McMurdo

Planes land on ice 3 miles from base

And to screen off Carpenter
shop had become a tree for all

Mc Murdo:

Facilities:

1962 McMurdo Inventory

1302 Capacitor .001 μ F

" " .05 μ F, 350 Volt. @ 70° + 100° C.

1501 Adding Machine

Calculator Friden (two)

Monroe " (two)

Typewriter. Olympia

" Smith Corona

Cameras

AO Spencer Photo micro

Zeica (with host of accessories)

Praktica (do do)

Developing tanks, no end.

Photo paper	{ what is left of	Bovira
	2,000	Polycontrast
	45,00	Koda Bromide
	<u>47,000</u>	Azo

Enlarges, safe lights
cutter, dryer

Projector Leitz Pradovif.

2303

Blood cell counter
" counting chamber

2307 Can sealer

Centrifuge + filter with acc. & glass ware)

Interval Lab clocks Time minder elec.

" "

Spring drive

Colorimeter - spectrophotometer & accessories

Condensers Friedrichs

Conductivity Bridge.

De mineralizer, Barnstead model 3D-2

Dessicators (three)

Distilling Apparatus Barnstead (two)

Pyrex (1)

2315 Embedding box (paraffine) (two)

Fan Chromatography (for heating & drying)

Freezer, Quickfreeze 4.2 cu feet

Rexco. 6.5 " "

Walkin. 6 1/2' x 5' x 4'

Furnace, Muffle, Tempco

2318 Heater Infra Red

Immersion.

Mantle

Hengar Apparatus

Homogenizer (Two)

Kestelute (5)

2319

Hydrogen ion meter Beckman (two)

" " " " pocket model.

" " Comparator. Bellig Pocket model

" " " Taylor plastic slide

Hydrometer alcohol. ^{one} (11" long) should have 2)

Incubator. On hydro

" Low temperature, Precision 805-

" Thelco model #4

Inoculation Board Nat'l Apparatus No. 3610

Microscope Medical type Spencer (two)

" " Bausch & Lomb.

" Stereoscopic, Spencer Cycloptic (2)

" " B + L. (two) (Series W) + (Series SK)

" " B + L Zoom type

" Stereoscopic, Zeiss

" Camera. Leica. (two or three)

" illuminator (5")

2323

Micro time. ~~2~~ Two and accessories

2324

Oven Drying & sterilizing
Paraffin embedding

Oxygen Analyzer

Photometer for exposure in photo micrograph

2326

Pump. Centrifugal (two)

Vacuum (two)

2326 Reeder "walkin" Bally model 100 cu. ft.

Refrigerator bath, Tempmobile

Refrigerated Freeze mobile VirTis ~~test~~

Refrig. Quick Freeze Brand

" Westinghouse model

Revolution counter (for centrifuge mill unit)
tachometer

2327 Salinity kit with 3 hydrometers

2328 Sample changer automatic, nuclear Chicago
(Set of Sieves) about 17,

Spectrophotometer Coleman Jr. model 6A
\$ {with constant vol transformer
transmittance density scale panel

2329 Sterilizer, Instrument. American, med size

" Portable, Stereotax

" Steam Pressure Elect. American

2330 Stirrer. Friction Drive, elect

" Junior Utility elect

" Magnetic mag. mix ect.

" Variable Speed, Preci elect

" Mixing Blender.

2331 Syring Large anemic needles

" s (4) 2cc, 5cc, 10cc, 20cc, & lot of needles

4 number
of stirring
bars

2331

Pank moulded, Polyethylene spiral ^{with} 30 gal
" " " " 55 gal
" " " " 55 gal

Pape recorder Hollensak Model T-1500
110 v. A.C.

Telethermometer Yellow Springs Model 44 TA.
" " " 44 TV.

2332

Tester Volt - Ohm - Milliammeter. Simpson Model

Thermograph, recording Fahrenheit ²⁶⁰

(Expendable) Thermometers (23)

Immersion (12) ²³

Max, min 1

Pocket 3

Water bath 2

Breaker Bureau 1

Distillation 1

Clinical oral, Rectal (2 each) 2

*Onschoetz Proctium 1

Circular dial (2)
Westm.

Burette magnifier

25

2334

Timer "Circalab"

Transformer Voltage regular, Cowatt Beckman

" " " 120 "

2335

Urometer, Squibs

Vacuum gauge

Vacuum tester, 534 Frequency

2337

Wayburg Apparatus, Brownell Standard model.
Water bath ^{UV} Sensor-Utility, Precision
Water test amparator, Aqua tester, Bellige
with 6 color discs.

line gauge

Oceanography
Am.

Oceanographic equipment

Anchor, Danforth

Boat, life raft, rubber. (2)

Spout Boat 2 man

Bottle Kemmer

Hansen

Salinity (2) [citrate]

Sealing

Vacuum Thomas

Bottom samplers, dredge & grab.

Pflueger Coring bit

Dredge

Balsteri

Symonological, Surber

Pelerson } = 2

"

Triangular

grab (orange peel

3 1/2' x 1'

2402

Trawl

Synac

Blake

Chain saw

Compass

See angles

"

"

"

"

Sigre

- 2402 Current Meter Ekman
 " " " G. & M.
 Dry suit R.
- 2403 Fish traps { 6 cylind. { 3' long. 2' dia. dbl. funnel
 2 rectang. { 6' x 3' x 3' dbl. frame
 3000 ft.
- Cable stainless steel 7x19 3/32" dia ^{pre} 500 ft.
 " " " 5/32 500 ft.
- Flow meter. Tsurumi & Seiki Model
- 2404 Generator 2 1/2 kw. 110 volt 60 cyc
- 2 helix seals.
 Out board motor
 Plankton net - 11
- Oxygen determination kit
- (2) Plankton sampler Clark Bumpus
 Thermarine Recorder, Bathythermograph.
- Heep sea thermometer 12
 " " " 17 unprobed
- 2 { Winch Hydrographic Latham line
 " " Model G 50-3008
 " " M.
- Handpainted

Until one sees the heavy bulldozers and ^{churning up the} cut pillars at ~~the~~ laboring up-hill with heavy sledge loads, tons of acetylene tanks, crated or boxed equipment and ^{all manner of} supplies for man or machine does one realize that the nature of the ~~is~~ how well ~~the~~ ^{suited} the volcanic sand streets, ~~are~~ for the traffic they bear.

No other road "metal" ^{or surface} would serve as well. The vehicles used as well for some uphill loads the streets are scarcely wide enough for maneuver or turn with often recalcitrant sledges, which tend unaccountably to balk or stick on turns — regrettably ^(mean?) ~~maneuver~~ and often sharp.

However there seems little excuse for the ~~junk~~ wood scraps and iron junk that litters the ^{se} streets. Straps, iron, wire, pcs galvanized cable, tie or anchor rods, occasional pcs of broken equipment.

runner sledge of acetylene bottles. These rocks and rock fragment could or should be run through a crusher to yield uniform (more or less gravel) for return to roads? Would it impede sledges? if so dispose else where without crushing.

The respectability of the place, the self respect and morale of the "inhabitants" and responsibility toward the establishment would be enhanced by a clean-up program. The wire and iron scrap can trip people up with resultant injury but for the heavy foot gear worn by ^{most} every one. The nails sticking up right is wood scraps, box lids, and pcs of crate slats, could be a serious ^{indeed dangerous} menace to feet.

It would be so easy to pick up so much of this waste and scrap material. ^{at least} ~~one or two men~~ ^{one or two men} could ^{only to pop it} ~~pop it~~ into ~~numerous~~ ^{drums} ~~drums~~ ^{almost} ~~the~~ ^{net} disgrace (perhaps) of McMurdo.

I believe ^{electro} ~~an~~ magnet run over the streets would pick up a sizeable amount of metal (damn here there seems to be little trouble with rust; is this heresay or true)

Also a scoop & strainer as used on Coronado beaches could be used to get sizeable rocks out of streets these impede the hauling and one large rock I believe caused up set of a great fur

Things to study:

Optical properties of ice (shelf and floe)
angle of light; intensity; photosynthetic
physicist bur. standards potency

spongy crystalline mass vs. smooth ice
do crystals aid in light
dispersal or else magnify it.

penguins go out on flow → feed on
euphausiids — do these last congregate
under ice sheet, or blocks more than
in free.

Dec. 17. Said read to $\frac{1}{300}$ of degree on Dec. 17.th

Packed up chamber // did run test one night at 2 a.m.
day after I'd asked for test.

Seal had come up in hole + upset part of rig
have found seals in holes, houses, once against
door + so dried window, at which seal stopped
in hole.

one tank. was
800 l on 19th

20 "

21 "

motor was running
+ pumping.

Large square tank
running continually
whether fish in or
not maybe better
so it expected to
use soon

Seems to me lack of

live + dead phytoplankton
vitalized ~~water~~ sample

Had asked for seeing meter test
Ran one at 2 a.m. though I
was in nearby room till 1³⁰
loud talking.

Express my disappointment
when I found him packing
up chamber. Was this
only test run after Webb-
Schuyless

Also said seal came up in
hole + upset thing a bit.
In testing hole.

Fishes are not plankton

Feeders? Should it not
be filtered water.

It is to be amended

The U.S.A.R.P. wishes to encourage and further (support) basic research in Antarctica. This is the broad, general over-all objective, ~~but not all fields~~ not all fields can be investigated at one and the same time

^{placing emphasis} that have we in mind in ^{emphasis} basic research. (giving) ^{priority}

But what, specifically, does the Program hope to accomplish and in what fields. Should there not be definite goals toward which study or research,

which lines of research should be given priority, in the award of grants and opportunities for study in Antarctica.

The present Program is working in all directions. Any worthy proposal is given consideration and support

should be directed whether or not, ~~and~~ a continuation or further ~~development~~ development prior studies ^{is} ~~are~~ involved

It would seem that continuity of previous lines of research unless brought to full fruition ^{transcends a variety of lines of work.} should be assured; ~~if not~~ ^{otherwise} a record

of uncompleted ~~it~~ or of only partially

Proposals should fit into some definite line of action.

Look up I.G.Y. early plans were not specific objectives spelled out herein

accomplished
investigations will result in various
lines of research

Duplication of another's previous research is not to be decried, and certainly in some (if not all) instances should be encouraged if only to check upon results set forth in a ~~sampled study~~ a study said have been completed, or possibly left incomplete by an earlier investigator

This is mentioned in good faith and in all ~~frankness~~ ~~honesty~~ ~~and~~ with due respect for each researcher's ability and integrity. ~~Human frailty being what it is~~ The human element in any intricate, detailed, and far reaching investigation, with all reflection on any particular researched findings should always be ~~checked~~ ~~checked~~ and adequately checked, especially researches carried out under the ~~various~~ ^{living} handicaps imposed by ~~Andur ch~~ conditions indoors and out.

A broad minded approach should be asked of professors sending graduate students to Anturchny to carry on researches for which they have accepted responsibility and ^a grant.

If a project is ^a worthy one with which he ~~professor~~ ^{principal} is sincerely concerned, and ~~high~~ desirous of bringing to definite conclusion he should be willing and indeed anxious to spend full time on the "job" with the graduate students he has enlisted to assist with the proposed research. If it is not significant or important enough to receive his full attention ~~it~~ ^{it} is ~~scarcely~~ ^{really} worth the effort and expense in the first place (rather less, but more earnest research than more, widely varied and not seriously undertaken research.

A professor ~~can~~ ^{can} send competent well trained students to do a "job" but

not until they have

not until they have had an initiation
of what is involved in living and
working conditions. To send ~~at~~^a
student inexperienced (in Antarctic living)
↑ without prof in charge riding herd
would seem to be the height of folly

Indoctrination is no substitute for
actual personal experience in Antarctica

A professor taking students of his own
training is carrying with him just
an extension of his own thinking
and methods of work. Would it not
be better that he take recommended
qualified students, who have majored
in the same line or discipline, from
another institute than his own.

Are we training ^{as} professor's students
for him (is it a ^{position to be} training school for ~~graduate~~
students)

or one ^{in which} of serious research in Arabic
problems is the primary objective

Re McMurdo Equipment.
In operating condition?
In use? in good cond.

3 men in charge
on call

elec
Carpenter
Machinist

Thermometer frames
in Reach (have been
Mansen/Water/Bottles shifted for
again

name plates on dets

I like Scott arrangement
of walk ways only should
be drained, if needed a
sump pump.

In the short space of time that I spent
in the ^{McMurdo} laboratory, truly marvel. of organization
have been achieved.

~~As USARP Rep~~ For USARP

(15)

"Bob" Mason, has done a wonderful
job of ~~coordination~~, in public relations
~~and in securing~~ ^{the office} Navy cooperation.
Not only in ^{multiplicity of} attending the wants and needs of
the scientific personnel and their
assistants ^{but also in securing the utmost in Navy} ^{cooperation where his}
^{other goals} ^{was needed.}
~~is a~~ ^{It is} rather considerable ^{most} job,
in which he is ^{most} assisted by
"Bud" Skinner, and

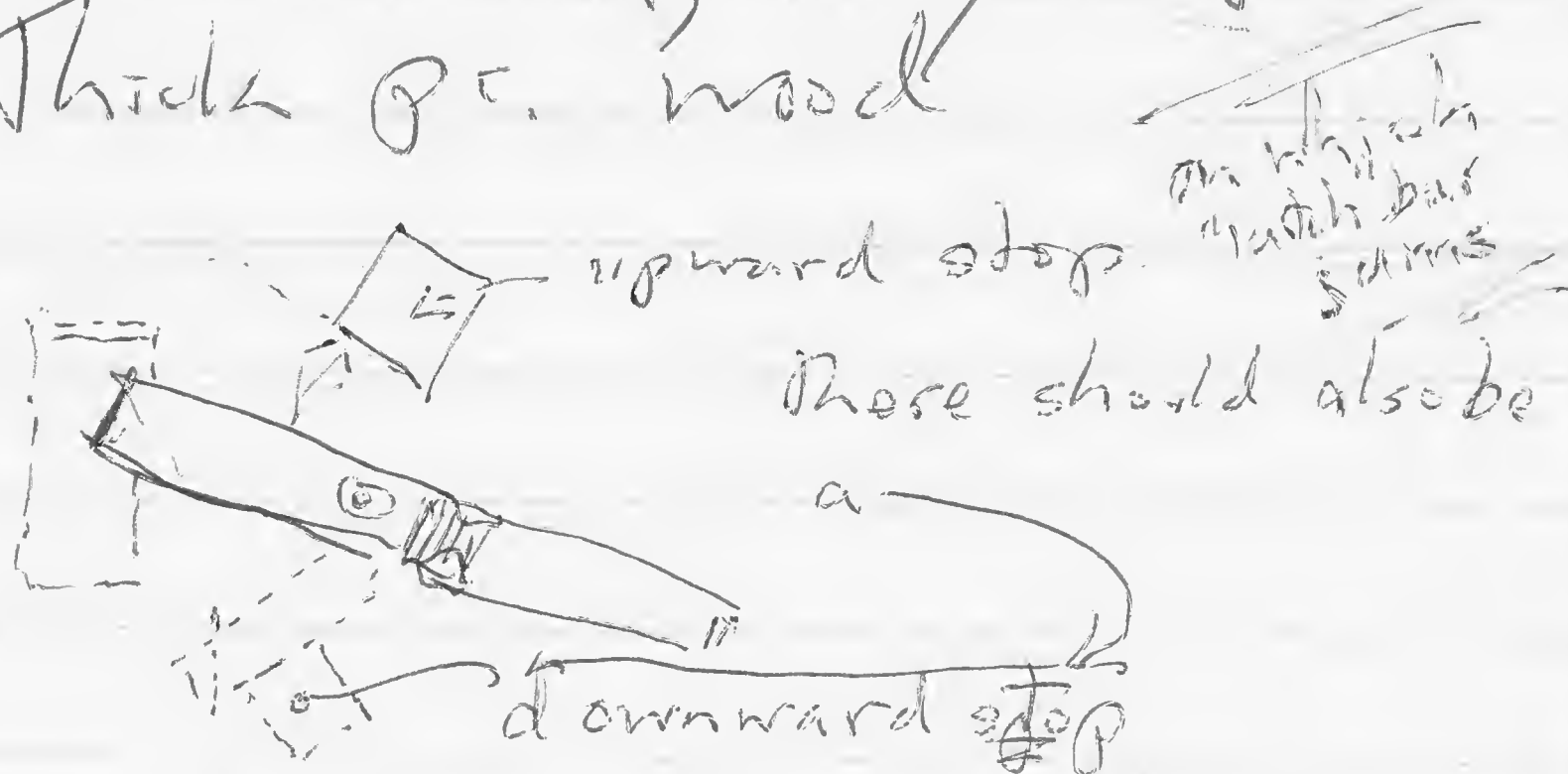
and ~~the man~~ in charge of the

Butler Building.

^{The eight traps which I took with me to Parkhurst} ^{which on very short notice} ^{to completion}
The traps ~~that~~ were rushed through

for me in the Navy shops, was due
~~both~~ to the Navy's desire to serve
~~and~~ more prompt, interested efficient
service I have yet to see, Thanks
to Mr. Tate, ~~an~~ engineer officer
in charge of the shops, and Mr.
Mason's, friendly ~~relations~~ and close
relation to the Navy's staff ~~and~~ com-
mand.

door closures are worst
 kind of make shifts, ideas
 are good, ^{but} work like, ~~well~~ &
 loose as hell stops are
 of thin ply wood against
 which "bars" are supposed to
 stop but they are so thin
 that "bars" at times jam
 over them, why not a
 thick p.c. wood



and decent snug/not ready
 to come apart bearing.

All these things are taken
 care of on a properly built
 organized ship or floating
 lab.

Window in wall of each entry way; Transition from bright usually sunlight to extreme

Proper door fasteners, like weather service? Too expensive? Doors should have strong springs or else weights & chains? and latches with reasonably large handles for manipulating. Man often has heavy bundle (or box) to carry

Movable partial partitions in labs, to delimit areas

requisition system for supplies and some orders among them
Chemicals are in good order any not in stock or reserved from previous year could be

Rich ①
Rutger 501 ①
Eastwind ①

This list McMurdo Sta

Wis. Limnology 3

Wis Ground

Bishop Mus

U. Cal. Limnology

Wisc. Penguin

McMurdo
total = 30

Taylor Gl. 2

Byrd Travers 4

C. Rozier — 2 3

Shukelton Gl. — 3

Pole Traverse. 8

Mt. Weaver 5

Pensacola Mts 6

Roosevelt Id 6

Vano East — 4

Ross Ice Shelf 6

Sentinel Mts ⑩ Alaska 6 ②

In field
64

Other
Sta. 56
150

Bldg 108

- 1 Osicki
- 2 Johnson (Dwight)
- 3 Bell
- 4 Roblante
- 5 Laird
- 6 Battle
- 7 Masan Bob
- 8 Thompson
- 9 Layman
- 10 Wallace
- 11 ^{Blank} Moulton
- 12 - Byrd
- 13 - Byrd
- 14 Schmitt
- 15:

Bldg. J. 1

Berg
Vogt
Mason

J 20

Reideman
Wilkes
Hobbie

New Zealand
Rich

East wind
Willey, F. J.

Rutger Soil
Ugolini

Wisc. Limnol.
Rugotzkie
Likens
Renirie

Wisc. Ground
Berg
Rogt

Wisc. Penguin
Robert B
Penny R

Alaska geol
Forbes
Ester

{ Crazier
1 Woods B
2 Penny

Mt Weasel
Summerson

①

McMurdo, Is a stupendous - almost overwhelming place - First impression on approaching it from the ice - a mining ^{town} camp. ^(*) Great buildings in all directions in great number, of varied materials. In over all view has grown like Topsy.

Streets look black and grimy and are in fact far too trashy. The streets of volcanic sand are in a state of being churned up by giant tractors which with the great loads they haul have scarcely room enough between the buildings to operate.

Buildings as it were seem broadcast over the landscape.

Relief from the monotonous ^{and dirty dark green (pavement)} color is given by the overwintering dormitory a bright and cheerful green, the Butler Building - shed and warehouse, huge in comparison, a bright red barn.

With the duller Bio Lab) and headquarters and lounge building ^{tending} giving a note of substance and well being to the back ground.

With its picture windows, and end porch for all the world like a converted R.R. car.

are as if were broad cast over
the land seaboard

The buildings should have more color
some attempt should be made to brighten them up. ③

Suggested is murals on their sides

The long mess hall for instance - the heads and other buildings with sufficient lateral areas.

of the type now hanging in
in the mess hall entry. ~~Out~~ duty
artistry by local (competent and serious,
inclined talent should be encourage, as
a morale and interest builder coequal with ^{dean} _{shells}

(4)
The dusty, grimy, uninviting streets need
policing in the worst way. The trash that lines
the streets is neither conducive to individual
self respect, or for the community as a whole.

strap iron ^{pcs} ~~able~~, galvanized and other
wise, wire nails & metal parts and fragments
wood scraps, often with protruding nails,
that could be dangerous but for the heavy
soot gear worn by most of the inhabitants.
In use by most " " " "

Inventory, is impressive and elaborate, ^⑤
elaborately impressive — seems to
cover a multitude of things and sins.

One has to read, carefully discovers
that ^{some} pieces of important equipment lack
significant parts, for which no replacements
are listed.

There ~~is~~ inventory proper should
only list what is in good serviceable
(useful and ~~is~~ operating condition) and
available. A second ^{or supplementary} ~~inventory~~ ^{or just list} should
might list things not useable ^{because of lack}
of parts.

On the plus side
Abundance of supplies
of various ~~sorts~~ ~~sorts~~.

Is it looseness of designation
on my part.

second man who bagged
and stapled it.
~~Formalin + Formaldehyde~~
~~common + chemical names~~

Need a requisition system → I do believe in
most universities such a system is customary
which not here most researchers are Univ.
sponsored (or not?) Or have Univ. gotten
slack in their care of equip + supplies.

On the minus side
Things listed and giving
impression of being in
stock and ready for use
but are not. ~~They~~ not
purely a random select
from a carton full.

Did not examine
whose fault or neglect
first man who used it

Two x four for cable on floor. Could it ②
not have been fished under floor, or
run up to ceiling.

Tools seldom seen to get hung up in
place (on ship when tin snips was wanted
was checked out from shop.) It seems
that each day tools should be replaced

Great progress has been made in organi-
zation of warehouse

| Inventory of apparatus
on hand and in working order

| Available collecting gear
also where withal to make
up nets and traps of various
kinds? Lines, floats, sinkers, traps

| What about boats in light of
what has been available to
you.

| Have you ^{around lab, etc} from talk gathered
any info, as to where a bio lab
might be advantageously
placed?

| Any major lines of research
other than ecologic-systematic
that it would be desirable to
further (advance) or initiate?

| What in light of your personal
experience would you like to
see undertaken? To continue

Should I try to buy local ^{fish} crab
or lobster pots?

Wohlschlag nr 10:10

Sunday at 2 p.m.
Picnic supper
+ see some of Rd

Next Wednesday
Evening Camera
show

\$5 for prize best
picture of ChCh
at night

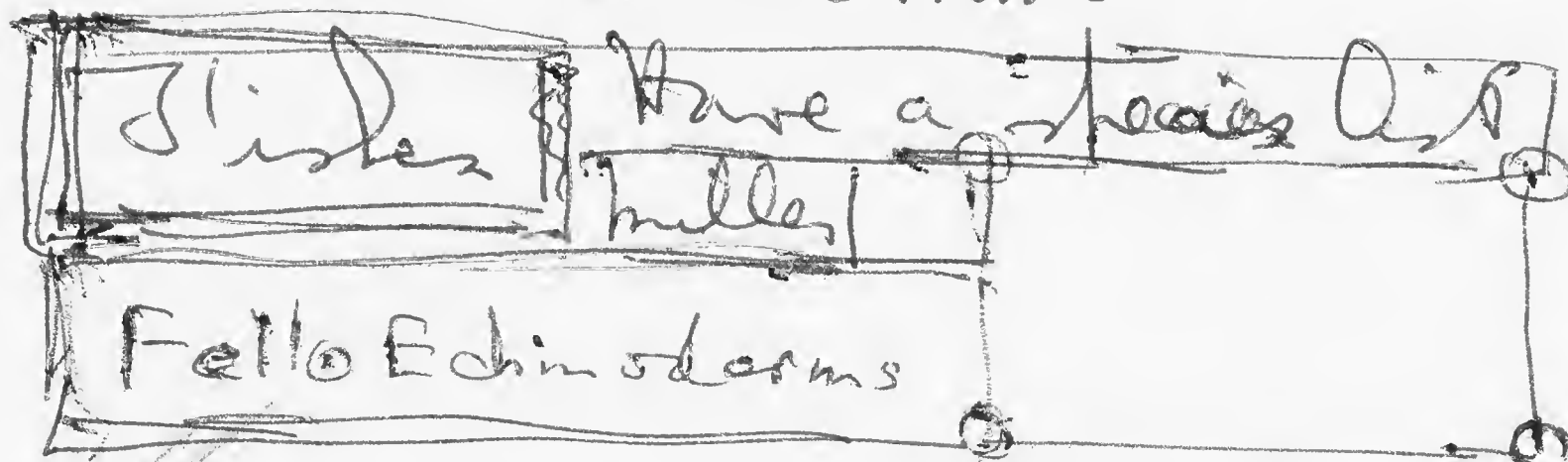
Prefer. View of city
from hill but best
most characteristic
picture is given

of judges selected
by Suncelf committee
of discreditable

2 deep freeze books! welcome to all!

Ross Sea Flaura

Station collections



Float Station

Cinematographic behavior
fishes and marine invertebrates
Bahamas, 1961

The group for you
will + sufficient (rental) it
give a list of work, a week
a 10 days in a month
During the passage of the time
I have the same one as
added to it
but as it is not
a complete one + for a long

I should have a new
letter of it

And above all a new
Road a sh. del.

Fire hazard
Next man ~~Parasite~~ baskets
full paper & beer cans floor reads paper
over running

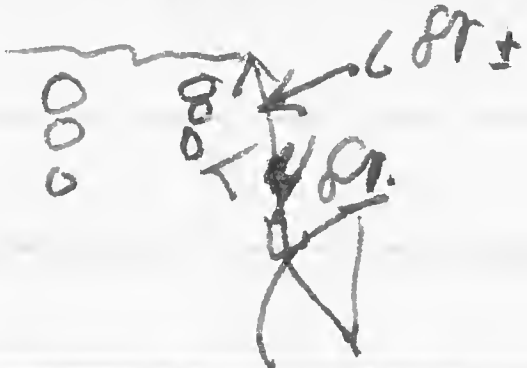
Trash all over place wire
strap iron, cables even, stakes
and rods sticking up out
of ground; every body seems
to think its none of their
business and in a sense it
isn't.

News paper propped against
light touched one and 1/4 inch
or less from other, to shield
reading



magazine
from too bright

light, should have turned back
to lights + ^{men} 1 ~~2~~ paper would
be needed. To go out and
leave paper in that position
a draft might have blown it
over/ door crack opened
up on it & was most
used do



Hope Bay / Argentine Base is
on Penguin rookery which ex-
tends far beyond

19th Western side near
South end great
valley in middle =
not a flat spec about the
rise perhaps nearly this
at large not larger
at perhaps slight-
smaller was taken by
Tom Berg

It won't grow perhaps
research is after all
study in studies case
is after all not
unimportant. This pattern
spread him over country.

What materials did
you collect ~~problems~~
been done with the
availability for other
to study. ~~things~~ ^{about}
have been written

On door says Visiting Hours
1600 - to - 1800
ONLY

Your cooperation is requested
Signal Laboratory Personnel

Then when you get inside
Radio is going (? I am
not sure but what this was
during visiting hours need
checked. However when going
could hear over nearly the
lab. some of it was
very disturbing.

Tools on floor square power
saw, box near by, scraps
of lumber ^{& saw dust} not brushed up
whole time I was there, hand

Saw lay on floor ^{also measure tape}
~~off~~ ^{boxes} boxes nearby everything
is terribly scattered around

Later just before 0430 I saw all along
main entrance you'll see
lighted just before 0430 I saw all along
main entrance you'll see
lighted just before 0430 I saw all along
main entrance you'll see

ordered and should be paid
for by user. ^{All proposals have}
Equipment & Supplies ^{item}

Specimens pickled in formalin
in physiology area. I was
asked to do it in Lab.
building even Sir Sears thinks
swimmers might be inimical
to proper test

Ident by fish (pictures)
largely; no keys available?
except in partially illus
books Regan - Norman.
Photos should accompany
keys and drawings and
if possible album of color
plates (Parker Flowers style?)

"Streets" are full of strap
iron, gas cable from $\frac{1}{4}$ inch
in dia to an inch \pm .

There ~~are~~ should be honey buckets
with each dormitory at
least two (or more).

Seems to me that heater
vents, and feeders of air to
flames could be rigged to
make a down draught in
sewage "holes". Should be
tried! Hear that hemorrhoids
are a serious problem.

One man carried 3 tins
(kind used for parachute
drops for bathing rear
end in warm water).

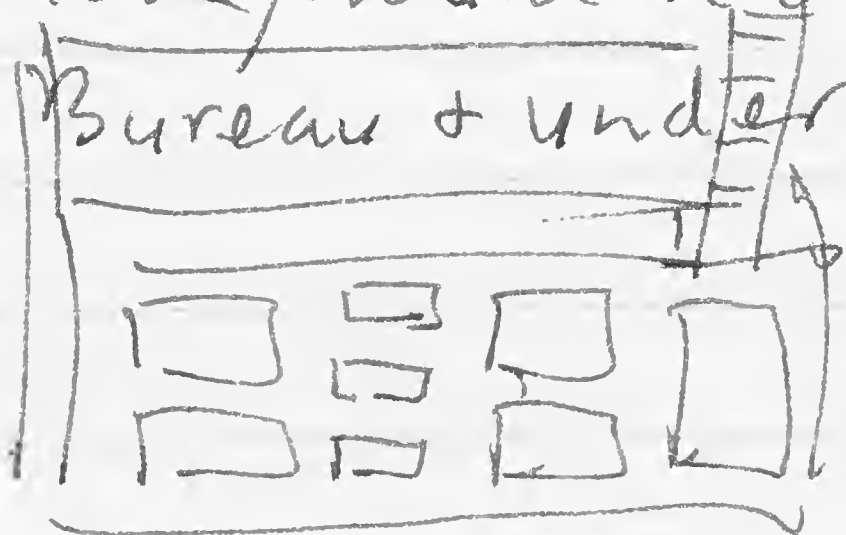
Also by honey but small
very small basin for hand
washing & tooth brushing/as
in Pullmans for shaving
could insist on electric
shavers if any shaving is
done on part of grantee.

Fish traps of two metals gal.
iron + copper don't last (gal.
vanic action.

Fish traps → frozen bait masher
one funnel. This true trap
with no masher two functional
funnels had no fish in it &
one with masher funnel one
end had dozen, & 2-3
small starfish & 1 crinoid }

No place, even in room, to
lay out things (no table)
or ~~store~~ store or preserve
specimens!

Rooms need table (and or
desk) would be cheaper than desk
Bureau + under bunk drawers



Lab In parts in indescribable confusion

Found large shears on floor in
shed next coil of rope some-
body had cut some

Wohlschlag how many weeks
(mos. at Sta.)

Snow melted by solar heater sun on roof

Recent door latches

Rooms 7-8 ft. square

Navy orders
Sigh in box

What about
wind changes

Suggestions for
Recreation Committee

below some body had written

More Women!

Under grads. out of place
~~went~~ along but got tired
were told after being given perm.
to go (exploring) walking to stay to
gather, later one came in 3 hrs
after 1st was found asleep in
tent.

Lab needs service help
Gute - Navy should have at least
3 extra men, on whom Lab
had first call ① Machinist
② carpenter ③ electrician unless
one can handle in. Gute welcomed
the idea. Now he should have
more help if he is to give us
the support that we would like to
have

(Vermin Villa) the day before

I had asked to see a metabolic
~~test~~ it was up ~~that~~ ^{the} night till
1:30 a.m. They did it at (They ran the last one)
2 a.m. & then dismembered
& packed up the rig to send
it back to Stanford. Seems
a silly business to ~~pack it~~ ^{ship it}
that chamber back, and forth
(What does one cost to pro
duce?)

Greatest lack here room to
work or retire to. If bunk
room had table & desk like it
would be fine, though small is
warm & comfortable & saves
hanging brief case back and
forth.

Came out McMurdo
and the men ~~midnight~~
Feb. I read around
Richard O'Connell's hand
saw it

Entry-ways or vestibules to Bio-Lab, and dormitory. should have window for light transition from bright ^{sunlight} to dark and vice-versa too extreme at times

Proper door fastener or latches. Weather service has better ones. Are they too expensive; are they trouble free. Doors should be ~~trans.~~ designed for easy opening when carrying box or bundle
Doors should have strong springs or weight & chain

Who's doing what at
McMurdo Station McMurdo

Rich

1

Eastwind

1

Rutgers Soil

1

Bela

Csejtesy

Wisc. Limnology

3

" Ground

Bishop Mus.

Insects
plants in water
culturing

U. Cal. Limnology

Wisc. Penguin

Taylor Gl.

2

Shakleton Gl.

3

Byrd Traverse

4

Crozier

2

Pole Traverse

8

Mt. Weaver

Pensacola Mts

6

Roosevelt Id.

6

Topo East

4

Ross Ice Shelf

6

Sentinel Mts

10

Alaska Geol

2

Total:
150

McMurdo total: 30

In field

64

other
stations
56

New Zealand:

Rich

East Wind:

Willey, F. J.

Rutgers Soil:

Ugolini

Bela Csejtesy

Wisc. Limnol:

(this is physical not biological)

Ragotski

Likens

Renirie

Wisc. Ground:

Berg

Yoyt

Wisc. Penguin

Roberts, B

Penny, R

Alaska Geol (inclusions)

Bob Forbes

Ester

Crozier

Woods, B

Penny,

Bldg 108

- 1 Osicki
- 2 Johnson (Dwight)
- 3 Bell
- 4 Rotolante
- 5 Laird
- 6 Battle
- 7 Mason (Bob)
- 8 Thompson
- 9 Layman
- 10 Wallace
- 11
- 12 Moulton
- 13 Bunt
- 14 Schmitt
- 15

Labels for
People

Identify people
& work

Summer
People
Clip in glasser
(Provide am)

(+ Hobbie in J. 20)

in

Bud
Skinner

Bldg 11

Berg

Vogt

Mason

J. 20

Reideman

Wiss. & ed.

Hobbie

Wilkes

(Hobbie works
with Mason)

Get Alexander's Birds
of Ocean

Oil skins at wharf.
& Kakis house

Mo Hugh

Fisheries re crab &
lobster pots. leaded
describing

wood or wine
weighted

Hodges for extension

write letter get endorse-
ment from Blanco

Passport

George:

Traps

wire ahead

What materials to
bring from N.Z.
if any would like

6 traps

Will there be time to
sinkers aboard?

status report #44

Stanford Univ
63 Fish in traps

Plankton nets 2 or 3

Electric light over side?

Fish traps or lobster pots.

Dip-nets lge + small

? Nylon gill net.?

Dredge (Bartsches little)

Thermometers

Geol. hammer

Forceps lge + small.

Sieves?

Bottom sampler or grab.

Formalin (neutralized?)

have Don Squires fix.

Plastic vials

Bags.

Webbing

Note book

Paper.

Conger nets & gear?

Make collecting outfit

Collect outfit

Buy nets; order traps

Nylon dip
nets

Geol. hammer

Hand lenses

Field Glasses

Dredge?

Vials = plastic bags

Formalin neutralized

ask Don to
prepare

Geol. hammer

Forceps

knife - scalpels

Pape

stone

bottom
sampler

Whale Book

Fish " ?

Bird " (Alexander)

Crustacean acct which one or
list.

Echinoderms?

Did Wholschag

Have him fill one out
get Dixie Ray Quest.

Generally it is true surgical services' recommendation that inguinal hernia be repaired but not on an emergency basis. Although it is unlikely that the patient will experience complication within the next few months we cannot with assurance say that he will be free of symptoms or complication.

Exam. of the (L) inguinal region reveals a moderate sized (L) inguinal hernia which can be held at the internal ring. L. Breitenneider

See Onger, =
re nets and gear

Get Alexander Birds of
Ocean
Falkland Id. & Shetland
notes

Turbox nets

~~Have 4 pp. of recommendations
written & copied~~

Proposals by subject
as well as man and or
sponsor?

How many people, proposals
and years given so far
to Penguins; and obligated
to for future on Penguins {after
Kinds

Binoculars

4 Nylon dip nets

Turtox

1 tow net

4 pr. Forceps long

2 pr. cotton "

3 one pound bottles

Hexamine

Nylons bags and or
tubing

4 spools adhesive tape

2 boxes rubber bands

1 fiber case:

Note books

2 ball pt. pens

Read glass
Hand lens

Nylon gill net.

16 mm. ②
projector

pictures of all common invertebrates

body - two dredge net

What about series of
identification program?

big. for a year?

How is primary productivity
related. Means
and littoral productivity.

Can film be bought aboard?

150 Extra wt (how much total)

What is mesoxenic environment

Copper dams in lakes

Don't we get any larval fish?

Do not need rich fauna

Why is fauna poor in place
perhaps - offers greater
challenge

Survivor takes all for
his or her life time

All assets including sale
price of house, ^{if sold} insurance
investment, Bank books
& S.H. even though joint
~~are~~ are to form a
trust fund for the
children, to be divided

3 ways in equal parts
when ~~eldest~~ ^{eldest} gets to 25 yrs
~~others to get those shares~~

Barbara to have
all income, dividends
and interest and like
from all assets during
her life time, if she
cares to have them.

The collections made at
Govt expense
we have been accused
of playing whole hog with
specimens (collections)
What about Universities and
investigators in Antarctic
to day? Is shoe on other
foot now or not?

Chas
S. Morgan

Pr. Binoculars and Exposure meter

4 ~~1~~ Turbo Nylon dip
nets 2 rectangular
2 square

1 Turbo Tow net

30 yds cheese cloth (*)
(have on hand)

2 pr. rubber gloves (*)

1 doz canvas bags (*)

3 doz plastic bags
3 x 8 (Miss Cochran)

1 pc. webbing

1 injecting syringe (*)
and needles

2 1-lb bottles

Hexamine

1 fiber case to hold

ca 2 1/2 x 1 x 1

books papers and

coll. gear

(*) Have on hand.

- 1 pr. Binoculars
- 1 exposure meter
- 2 Turtox dip nets (rectangular)
- 2 Turtox dip nets (square)
- 1 Turtox Tow net
- *30 yards cheese cloth
- * 2 pair rubber gloves
- * 1 dozen canvas bags
- 3 dozen plastic bags
- 1 piece webbing (3x8)
- * 1 injecting syringe and needles
- 2 1-lb bottles Hexamine
- 1 fiber case to hold books, papers and collection gear.
(approx. 2 1/2'x1'x1')

* Have on hand.

Adhesive tape
Rubber bands
Iodiform

Fish in freezer

November 16, 1962

Waldo L. Schmitt, Research Associate, S.I.

Antarctica under auspices of National Science
Foundation

Waldo L. Schmitt

Deep Freeze 63

Zoology

Under wear:

(2)

Two pair "ankle" drawers } sizes read
two pair undershirts } ok.

Light clothing:

Two pair kaki pants are snug 38
should be 40 (I believe there is no 39)
if I am to get any kind of
under wear other than my cotton
shirts under them plus "sport"
shirt. Need six bottoms!

Two pair Duxbacks ^{black pants} are certainly
too tight should be at least
40.

✓ Nylon storm wear coat too
small to go over heavy
shirt, pants ditto!

Heavy clothing

✓ White pants too small
Red quilted "vest" too tight
Red "parka" coat, seems plenty
large. ok.
Heavy yellow shirt, ditto. ok.

Two pair sport shirts, sizes read ok.

Gloves: all ok.

2 pair brown suede
 2 pair yellow
 pair wullen liners
 1 pair heavy fur backed

Head gear: all feels too light. what
 with no hair cut yet to
 be?

1 black with earmuffs too tight
1 red wool ditto
1 blue "ear protector"? ditto

Misc.

Suspenders for white "pants"
 Blue belt, and buckle
 One food bag
 Two boxes shoe dope
 One pair sun glasses

Red Parka (open at front)

Green padded vest

2 lumberjack shirt - plaid

1 Heavy white pants (under ~~red~~ next pair)

1 2 pair blue buck pants

1 Heavy yellow wool shirt

2 ^{under} pair drawers + shirts

2 pair Kaki pants

1 blue navy shirt

1 black hat

Socks

2 pr. heavy grey wool

4 pair mine wht

3 pr. wht. issue

2 pr. Kaki

→ gloves ←

2 pr. tan

2 pr. wool insert

1 reg Kears pair

2 cans dobe

High leather shoes (tan)

non-skid (deds ^{grey} shoes)

1 pr. Mukks + 1 pr. inserts

1 pr. slipper

1 belt + 1 buckle

1 Suspenders

1 marking pen

Antarctic clothing — Mr. Mogensen ①

"Shoes:

No. 7-1717

1530 - P. Street.

Boots are nine should be at least size 10 or better depending on socks worn.

✓ High tan shoes, ditto

✓ Nylon topped rubber soled shoes, seem ^(over shoes?) large enough — but what is worn
in them?

Pair
hulk
shoes
size 11

✓ Slippers for indoor wear ^{feel} are too
short, "stab" my toes! snug(?)

SHEARLING
SOCKS.

✓ "Bootees" luz lined, insides are too
short, stab my toes; should be
half inch longer at least.
won't go in Nylon over shoes, are they supply to?

Socks:

Single kaki pair are not mates
Three pair white (knit) socks are
10's should be 12's (10 is too small)
One pair heavy grey wool is
size 13, first shrinking will
surely make them right

Insoles:

~~Two pair grey felt~~
One pair white "
One pair "pedi..."

} OK.

26.X.62

Examination of (L) inguinal region reveals a moderate sized (L) inguinal hernia which can be held at the internal ring.

Kirkpatrick

Generally it is true surgical services' recommendation is that inguinal hernia be repaired but not on any emergency basis. Although it is unlikely that the patient will experience complications in the next few months we cannot with assurance say that he will be free of symptoms or complications.

Breitschneider

- 1 pr. Binoculars
- 1 exposure meter
- 2 Turtox dip nets (rectangular)
- 2 Turtox dip nets (square)
- 1 Turtox Tow net
- *30 yards cheese cloth
- * 2 pair rubber gloves
- * 1 dozen canvas bags
- 3 dozen plastic bags
- 1 piece webbing (3x8)
- * 1 injecting syringe and needles
- 2 1-lb bottles Hexamine
- 1 fiber case to hold books, papers and collection gear.
(approx. 2 1/2'x1'x1')

* Have on hand.

And such other items
as may be
in stock.

Adhesive tape

Rubber bands

Band Aides

SMITHSONIAN INSTITUTION
UNITED STATES NATIONAL MUSEUM

REQUISITION FOR COLLECTOR'S OUTFIT

No. _____

(Date) November 16, 1962

TO THE DIRECTOR:

The collector's outfit listed on the reverse side is required for use by:

Waldo L. Schmitt, Research Associate, S.I.
(Name, title, and institutional affiliation)

during field work for the Museum in Antarctica under auspices of National Science
Foundation

Outfit to be addressed: Waldo L. Schmitt

Deep Freeze 63

Outfit to be available on _____ for shipment by FREIGHT, EXPRESS,
(Date)
MAIL, MESSENGER, COLLECT, PREPAID.

(Name) _____

(Title and Division) _____

Recommended: _____, Head Curator, Department of Zoology

To the SUPPLY OFFICER: The above requisition is approved.

_____, 19_____

Director.

To the _____: Outfit packed in

is now ready for shipment. Please prepare shipping invoice and packing list and forward with this to the
Chief, Division of Correspondence and Records.

_____, 19_____

Supply Officer.

Outfit shipped by _____

_____, 19_____

Shipping Clerk.

TO BE RETURNED TO SUPPLY OFFICER